

|                        |                                      |
|------------------------|--------------------------------------|
| Certification No. 2516 | Applicant: ITRON<br>Issued to: ITRON |
|------------------------|--------------------------------------|

On the request of the applicant the DLMS UA certifies hereby that the product identified below has successfully passed the DLMS/COSEM Conformance tests under the following conditions:

|  |                                 |   |   |                         |  |
|--|---------------------------------|---|---|-------------------------|--|
| <b>Product</b>   | <b>Type</b>                     | EM425-UK Version 05.1A.05.09                  |   |                         |  |
|  | <b>Active firmware ID</b>       | V=051A0000                                    |   |                         |  |
|  | <b>Management LDN (SAP = 1)</b> | "4954453030303031333241" (ITE0000132A)"       |   |                         |  |
|  | <b>Manufacturer</b>             | ITRON   |   |                         |  |
| <b>Test tool</b>   | <b>CTT version</b>              | CTT 3.1 standard edition, 64bits, release 108 |   |                         |  |
|  | <b>Licensed to</b>              | 20160322_ITRON (3/22/2016)                    |   |                         |  |
|  | <b>COSEM object definitions</b> | Object_defs_v3.6_Released_20200825.dat        |   |                         |  |
|  | <b>Media Identifiers</b>        | Abstract, Electricity                         |   |                         |  |
| <b>Test</b>  | <b>Communication profile</b>    | <b>Application contexts</b>                   | <b>Security features</b>  | <b>Date and time</b>    | <b>Test Result hash value</b>  |
| 1  | DIRECT_HDLC                     | LONG_NAMES,<br>LONG_NAMES_<br>WITH_CIPHERING  | GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED<br>GENERAL_SIGNING<br>SERVICE_SPECIFIC_GLO_CIPHERING,<br>SUITE_1 | 25-JAN-2021<br>03:49:35 | 5DF0904AA1CFFBB070BB7E<br>FE84C45B8DB62142DA4C5A<br>93A6888A8941899A02B0 |
| The test reports are filed by the DLMS UA. Copies are available from the manufacturer. |                                 |   |   |                         |  |

The authenticity and correctness of the test report(s) submitted have been verified by the DLMS UA. With this, the applicant / manufacturer is entitled to claim that its product is compliant to the DLMS/COSEM specification and is entitled to display the DLMS/COSEM Compliant mark on the product and in its product literature. The product identified above is listed at: <https://www.dlms.com>.



This Certification is valid for the functions successfully tested and summarized below. The tests have been executed on one specimen of the product, as identified by the Management LDN reported. Results may not be applicable for other test specimens.

Date: Sursee, the 25<sup>th</sup> January 2021



Sergio Lazzarotto  
Executive Director and President



Viktória Varjú  
Certification Engineer

Summary of features tested for Test 1

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

\*\*\*\*\*  
\* Identification \*  
\*\*\*\*\*

```
Identification = {
  Manufacturer = "\ITRON"
  FLAGid = "\ITE"
  Type = "\EM425-UK Version 05.1A.05.09"
  SerialNr = "\000781D7000170D5"
  Applicant = "\ITRON"
}
```

\*\*\*\*\*  
\* Summary \*  
\*\*\*\*\*

| TYPE    | TOTAL | SKIPPED  | INAPPLICABLE | INCONCLUSIVE | PASSED | FAILED |
|---------|-------|--|--------------|--------------|--------|--------|
| ----    | ----- | -----  | -----        | -----        | -----  | -----  |
| HDLCL   | 36    | 0  | 1            | 0            | 35     | 0      |
| APPL    | 53    | 0  | 17           | 0            | 36     | 0      |
| SecMsg  | 17    | 0  | 4            | 0            | 13     | 0      |
| COSEM   | 2016  | 0  | 1            | 1196         | 819    | 0      |
| SymKey  | 11    | 0  | 11           | 0            | 0      | 0      |
| DP      | 0     | 0  | 0            | 0            | 0      | 0      |
| GBT     |       | All (No association with the required properties)          |              |              |        |        |
| PubCert |       | All (No ciphered association with the required properties) |              |              |        |        |
| SecPol  | 2     | 0  | 2            | 0            | 0      | 0      |

Communication profile: HDLC

Application context names: LONG\_NAMES, LONG\_NAMES\_WITH\_CIPHERING

Authentication mechanisms: NO\_SECURITY, HIGH\_LEVEL\_SECURITY\_GMAC

ACSE and xDLMS features: ACTION, GET, MULTIPLE\_REFERENCES  
SERVICE\_SPECIFIC\_BLOCK\_TRANSFER, SET

Security features: GENERAL\_CIPHERING\_WITH\_AGREED\_STATIC\_UNIFIED  
GENERAL\_SIGNING  
SERVICE\_SPECIFIC\_GLO\_CIPHERING, SUITE\_1

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "4954453030303031333241" (ITE0000132A)

Active firmware(s): V=051A0000

COSEM classes tested: 1, 3, 4, 7(1), 8, 9, 10, 11, 15(3), 20, 21, 22, 30  
64(1), 70, 71, 111, 112, 113, 115

COSEM classes found but not tested: (none)